SEQUENCE LISTING

<110> Banerjee, Subhashis Taylor, Lori K Spiegler, Clive E Tracey, Daniel E Chartash, Elliot K Hoffman, Rebecca S Barchuk, William T Yan, Philip Murtaza, Anwar Salfeld, Jochen G Fischkoff, Steven <120> TREATMENT OF PAIN USING TNF α INHIBITORS <130> BPI-193 <140> <141> <150> 60/397,275 <151> 2002-07-19 <150> 60/411,081 <151> 2002-09-16 <150> 60/417,490 <151> 2002-10-10 <150> 60/455,777 <151> 2003-03-18 <160> 37 <170> FastSEQ for Windows Version 4.0 <210> 1 <211> 107 <212> PRT <213> Artificial Sequence <223> Mutated human antibody <400> 1 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly 1 5 10 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Tyr 25 30 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile 35 40 45 Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly 55 60 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro

90

Glu Asp Val Ala Thr Tyr Tyr Cys Gln Arg Tyr Asn Arg Ala Pro Tyr

75

70

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
           20
                                25
Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
                            40
Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val
                        55
Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
                    70
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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Ala Lys Val Ser Tyr Leu Ser Thr Ala Ser Ser Leu Asp Tyr Trp Gly
Gln Gly Thr Leu Val Thr Val Ser Ser
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Gln Arg Tyr Asn Arg Ala Pro Tyr Xaa
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Gly
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Arg Ala Ser Gln Gly Ile Arg Asn Tyr Leu Ala
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Asp Tyr Ala Met His
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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Tyr
                                 25
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
                             40
                                                 45
Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
                                         75
Glu Asp Val Ala Thr Tyr Tyr Cys Gln Lys Tyr Asn Ser Ala Pro Tyr
                                     90
Ala Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Asp Trp Val
Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val
                        55
Glu Gly Arg Phe Ala Val Ser Arg Asp Asn Ala Lys Asn Ala Leu Tyr
                    70
                                         75
Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85
                                    90
Thr Lys Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu Asp Asn Trp Gly
            100
                                105
Gln Gly Thr Leu Val Thr Val Ser Ser
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<400> 11
Gln Lys Tyr Asn Ser Ala Pro Tyr Ala
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Gln Lys Tyr Asn Arg Ala Pro Tyr Ala
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Gln Lys Tyr Gln Arg Ala Pro Tyr Thr
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Gln Lys Tyr Asn Ser Asp Pro Tyr Thr
1
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Gln Lys Tyr Ile Ser Ala Pro Tyr Thr
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Gln Lys Tyr Asn Arg Pro Pro Tyr Thr
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Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu Asp Asn
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Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu Asp Lys
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Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu His Tyr
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<211> 321
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<223> Mutated human antibody
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atcacttqtc qqqcaaqtca qqqcatcaqa aattacttaq cctqqtatca qcaaaaacca 120
gggaaagccc ctaagctcct gatctatgct gcatccactt tgcaatcagg ggtcccatct 180
cggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag cctacagcct 240
gaagatgttg caacttatta ctgtcaaagg tataaccgtg caccgtatac ttttggccag 300
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teetgtgegg cetetggatt cacetttgat gattatgeca tgeactgggt eeggeaaget 120
ccagggaagg gcctggaatg ggtctcagct atcacttgga atagtggtca catagactat 180
gcggactctg tggagggccg attcaccatc tccagagaca acgccaagaa ctccctgtat 240
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                                                                   363
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